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RESEARCH ARTICLE

Taxons dedicated to Grigore Antipa

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Abstract

A comprehensive list of the taxons dedicated to Grigore Antipa by collaborators, science personalities who appreciated his work was constituted from surveying the natural history or science museums or university collections from several countries (Romania, Germany, Australia, Israel and United States). The list consists of 33 taxons, with current nomenclature and position in a collection. Historical aspects have been discussed, in order to provide a depth to the process of collection dissapearance during more than one century of Romanian zoological research. Natural calamities, wars and the evictions of the museum's buildings that followed, and sometimes the neglection of the collections following the decease of their founder, are the major problems that contributed gradually to the transformation of the taxon/specimen into a historical landmark and not as an accessible object of further taxonomical inquiry.

Keywords

Grigore Antipa, museum, type collection, type specimens, new taxa, natural history, zoological collections.

Introduction

This paper is dedicated to 150 year anniversary of Grigore Antipa's birth, the great Romanian scientist and the founding father of the modern Romanian zoology. This paper is an homage to the man, educator and mentor, from the perspective of his most devoted friends, collaborators and esteemed scientists who dedicated their valuable discoveries to the eternal memory of the founder of the Romanian zoology.

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PENSOFT

During his career, Grigore Antipa helped numerous researchers and professors with recommendations on various forms (for employment, for studying the collections of a museum, for obtaining a scholarship or for sending specimens) and in return they manifested their gratitude by dedicating him eight new species (one fossil).

In two issues of the 8th volume of Travaux du Muséum National d'Histoire Naturelle "Grigore Antipa", dedicated to Antipa's Centennial (published in 1968), nine new taxa had been described, eight species and one genus (Achim Barcan 2004). In 2017, the Romanian Committee for the History and Philosophy of Science and Technique (Division of History of Science), in collaboration with the Romanian Academy of Science celebrated the Romanian scientist with a conference and a volume of papers regarding his activity. In addition, symposium with various communications regarding the personality of Grigore Antipa was organized at the museum which bears his name for 85 years.

Between Grigore Antipa's death and his Centenary celebration, in 1968, other two species had been described and after this, 14 new species and one genus. Although Achim Barcan (2004) compiled a detailed list of species described in Travaux du Muséum National d'Histoire Naturelle "Grigore Antipa", where part of the species dedicated to the founder of Romanian zoology can be found, other taxa have been described in other publications, between 1891 and 2018.

We present a comprehensive list of the taxons dedicated to Grigore Antipa and to his most devoted collaborator, Alina Antipa, with the accepted, original name or synonymies, the actual localization of holotype, paratypes and allotypes in a museological or university collection. We provide more details about life and activity of some of the authors that were almost unknown up today and also the problems of depositing the studied material.

Material and methods

In the absence of a digital library for museological collections a small survey was made in order to identify the presence of the species dedicated to Grigore Antipa in different research institutions, museums and university collections of Romania (Agigea Marine Station and "Ovidius" University - Faculty of Agricultural and Natural Sciences from Constantza, "Alexandru I. Cuza" University - Natural Sciences Faculty of Iași, Natural Science Museum of Vrancea Museum, Focșani, Zoological Museum - "Babes-Bolyai" University, Cluj, Institute of Biology - Romanian Academy, Bucharest, "The Danube Delta" National Institute for Research and Development, "Emil Racoviță" Institute of Speleology of Bucharest) and from abroad (Museum für Naturkunde, Berlin, Zoological Museum, University of Hamburg, Australian Museum, Sydney, The Steinhardt Museum of Natural History and National Research Center, Tel Aviv University, American Museum of Natural History from New York).

Abbreviations:

Coll. no. (collection number), MGAB ("Grigore Antipa" National Museum of Natural History from Bucharest); AMS (Australian Museum, Sydney); AMNH (American Museum of Natural History from New York); CeNak (Center of Natural History, Hamburg University, Zoology Museum); MNHN (Muséum National d'Histoire Naturelle, Paris); SMNHTAU (The Steinhardt Museum of Natural History and National Research Center, Tel Aviv University), ZMUBB (The Zoological Museum of the "Babeș-Bolyai" University, Cluj).

Results

There are 33 taxons dedicated to Grigore Antipa, 31 species and two genera. A summary of these taxons and their presence in six collections was comprised in Tabel 1.

The taxons are included in major groups such as: Rhodophyta, Gastrotricha, Plathelminthes, Nemertea, Annelida, Acari, Crustacea (Amphipoda, Cumacea, Isopoda, Tanaidacea), Myriapoda, Coleoptera, Diptera, Mecoptera, Lepidoptera, Hymenoptera, Pisces and Mammalia. The specimens originate in Romanian Fauna and Flora (several counties), also from Cape Kaliakra (now in Bulgaria), from Iran, from Western Indian Ocean (coasts of Tanzania, Romanian expedition from 1973–1974), from the Pacific Ocean, Indonesian Archipelago (Romanian expedition from 1991, mostly from North Sulawesi, Bunaken Island), Tasman Sea (Australia), from Eastern Atlantic (Ibero-Moroccan coasts), Western Atlantic (Bahamas caves), South Atlantic Ocean (from "USS Eltanin", "RV Vema" and "Geocosta Rio" Expeditions), from the Caribbean Sea and from Argentina. Most of the specimens dedicated to Grigore Antipa are deposited in the type collection (except insects) and entomological and paleontological collections of "Grigore Antipa" National Museum of Natural History from Bucharest. These are represented by various orders of crustaceans, such as Amphipoda, Tanaidacea, Isopoda and Cumacea (all of them being represented by nine species, one genus) from five families (Amphilocidae, Leptocheliidae, Antheluridae, Nannastacidae and Diastylidae). Other taxons, some of which are valid today, are registered and present as holotypes in the collections of the museum from various groups: five species of insects (Mecoptera, Lepidoptera and Diptera). From the chordates two holotypes and one paratype still remains in the collections: the holotype of an Oligocen fossil, *Ammodytes antipai*, and a holotype and a paratype of a cyprinid species considered extinct, *Romanogobio antipai*.

Almost all described taxons are still valid, only six taxa and one genus had been synonymized since their publication.

Table 1. Summary of the taxons dedicated to Grigore Antipa in the museological collections.

Taxon	First published	Publication	Type specimen	Type locality	Presence/absence in a collection
Parviphycus antipai	*Geliediella antipai*	Celan 1938; B. Santelices 2004	Holotype	Cape Kaliakra, (Black Sea, Romania)	-
Chaetonotus (*Marinochaetus*) *antipai*	*Chaetonotus antipai*	Rodewald 1938; Kisielewski 1997	Holotype	Agigea Lake, Constanța (Romania)	-
Aspidogaster antipai		Lepși 1932	Holotype	Mureș River, Cigmău (Hunedoara County, Romania)	-
Ototyphlonemertes (*Duplex*) *antipai*	*Ototyphlonemertes antipai*	Müller 1968; Envall and Norenburg 2001	Holotype	Vama Veche, Romania, Agigea, Costinești, 2 Mai (Romania), Varna, "Kaba-Kum" (Bulgaria)	Ovidius University (Collection of Prof. Geza Müller)
Proctodrilus antipai antipai	*Allolobophora antipae*	Michaelsen 1891; Zicsi 1985	Holotype	Iași, Romania	ZMHV 152
Pneumolaelaps antipai	*Hypoaspis antipai*	Solomon 1968	Holotype	Jijila, Tulcea, Romania	-
Euphthiracarus antipai		Feider and Călugăr 1968	Holotype	Valea Rea (Retezat Mt), Romania	-
Gitanopsis antipai		Ortiz and Lalana 1997	Holotype	Bunaken, N Sulawesi (Indonesia, SW Pacific Ocean)	MGAB (♀, AMP 429)
Grallatotanais antipai		Guțu and Iliffe 2001	Holotype Allotype	Bahamas, Andros Island (Caribbean Sea)	MGAB (holotype ♀, 250.178; allotype ♂, 250.179)
Antiparus longisetosus		Guțu 2016	Holotype Paratypes	Tanzania (W Indian Ocean)	MGAB (holotype ♀, 250.622; paratypes 2 ♀♀, 250.623)
Ananthura antipai		Negoescu 2005	Holotype Paratypes	Gibraltar (E Atlantic Ocean)	MGAB (holotype non-ovigerous ♀, MNHN Is 5851; paratypes, 1 manca, 1 post manca, MNHN Is 5821, 1 non-ovigerous ♀, 2 mancas, MGAB ISP 898)
Cyclaspis antipai		Petrescu 1995	Holotype	Uruguay (S Atlantic Ocean)	AMNH (holotype ovigerous ♀, 16.768)
Campylaspis antipai		Băcescu and Petrescu 1989	Holotype	Brazil, Araruama lagoon (S Atlantic Ocean)	MGAB (holotype ♂, 49.459)
Cumella antipai		Petrescu, Iliffe and Sârbu 1994	Holotype Allotype	Jamaica, Westmoreland Parish Joseph's caves, (Caribbean Sea)	MGAB (holotype ♀, 49.522 / CUM 058; allotype ♂, 49.523 / CUM 059)
Nannastacus antipai		Petrescu 1995	Holotype Allotype Paratypes	Bunaken Isand, N Sulawesi, Indonesia SW Pacific Ocean)	MGAB (holotype ♀, 49.549 / CUM 018; allotype ♂, 49.550 / CUM 019; paratype ♀, 49.551 / CUM 020)
Nannastacus grantipai		Petrescu 2017	Holotype	Bontang, Kalimantan Island Makasaar Straint (Indonesia, SW Pacific Ocean)	MGAB (holotype ♀, postmanca, CUM 1325)

Table 1. (continued)

Taxon	First published	Publication	Type specimen	Type locality	Presence/absence in a collection
Schizocuma antipai		Petrescu 2018	Holotype Paratypes	Lord Howe Rise, Tasman Sea (Australia South Pacific Ocean)	AM (holotype ♀, P.90.701, paratypes 1 ♀, 1 subadult ♂, P.90.702)
Styloptocuma antipai		Băcescu and Muradian 1974	Holotype Allotype Paratypes	Beaufort Research Station, between Cape Hatteras and Florida (NW Atlantic Ocean)	MGAB (Holotype ovig. ♀, 49032; allotype ♂, 49.033, paratypes 2 ♂♂, 49.034)
Oxyurostylis antipai		Petrescu, Iliffe and Sârbu 1993	Holotype	Jamaica, Westmoreland Parish Joseph's caves, (Caribbean Sea)	MGAB (holotype ♀, 49.511)
Lithobius antipai		Matic 1969	Holotype	Elburz, Mt. Demavend, Iran	ZMUBB (Paratype, 904)
Pachymerium antipai		Căpuşe 1968	Holotype	Ciucea, Cluj, Romania	-
Carabus (*Tomocarabus*) *convexus convexus*	*Carabus antipai*	Panin 1942	Holotype-invalid	Văratec, Piatra Neamț (Romania)	-
Lamyra antipai	*Choerades antipai*	Weinberg and Pârvu 1999	Holotype Paratype	Bunaken Island, Sulawesi, Indonesia)	MGAB (Holotype ♂, dissected, 181.660; paratype ♂, 181.661)
Dysmachus antipai		Weinberg 1968	Holotype Allotype Paratypes	Valul Traian,Constanța (Romania)	MGAB (Holotype ♂, 12.106; allotype ♀, 12.107; 895 paratypes, 181.503, 181.504, 181.505/1- 47)
Panorpa antiporum		Nagler 1968	Paratype Allotype	Zboina Neagră, Vrancea (Romania)	MGAB (Holotype ♂, 182.520; allotype ♀, 1852.523; paratype ♂, 182.581 and paratype ♀, 182.522)
Anomalotinea liguriella	*Fermocelina antipai*	Zagulajev 1972	Holotype-invalid	Spain	MGAB (176.137)
Chilo christophi	*Chilo antipai*	Popescu-Gorj 1968; Bleszynski 1962	Holotype Allotype Paratypes-invalid	Caraorman, Tulcea (Romania)	MGAB (Holotype, 177.219; allotype, 177.220, 4 paratypes, 177.221/A-D)
Pentapria depressa	*Antipapria depressa*	Fabritius 1968	Holotype-invalid	Lacavera, San Miguel de Tucumán, (Argentina)	-
Bethylus antipai		Nagy 1968	Holotype	Arcalia Station of Biological Research, Bistrița, Bistrița-Năsăud (Romania)	-
Romanogobio antipai	*Gobiokessleri antipai*	Bănărescu 1953; Nasenka and Freyhof 2004	Holotype	Sulina (Tulcea County, Romania)	MGAB (Holotype, 49.908; paratype, BN 761)
Ammodytes antipai		Pauca 1929	Holotype	Suslănești (Romania)	MGAB (Holotype, 11007/64)
Crocidura suaveolens	*Crocidura antipae*	Matschie 1901	Holotype-invalid	Ciulnița (Călărași) Bârza (Olt), Mangalia (Romania)	-

Kingdom PLANTAE
Phylum RHODOPHYTA
Order Gelidiales
Family Gelidiellaceae
Parviphycus B. Santelices, 2004

***Parviphycus antipai* (Celan) B. Santelices, 2004**

Original name: *Gelidiella antipai* Celan, 1938: 77, figs A–F.

Accepted name: *Parviphycus antipai* (Celan) B. Santelices, 2004: 313–326.

Type specimen: holotype had been lost, although a significant part of Prof. Maria Celan collection is still deposited in the Faculty of Natural and Agricultural Sciences, from "Ovidius University", Constantza (Dr. Daciana Sava, Associate Professor, personal communication).

Type locality: Cape Kaliakra, Black Sea, legit Maria Celan.

Kingdom ANIMALIA
Phylum GASTROTRICHA
Order Chaetonotida
Family Chaetonotidae

***Chaetonotus* (*Marinochaetus*) *antipai* (Rodewald, 1938)**

Original name: *Chaetonotus antipai* Rodewald, 1938: 78, fig. 5 a–c.

Accepted name: *Chaetonotus* (*Marinochaetus*) *antipai* (Rodewald, 1938) Kisielewski, 1997: 151.

Type specimen: not found.

Type locality: Agigea Lake, between aquatic plants (nowadays the lake has a much-restricted perimeter due to the the construction of the Danube-Black Sea Canal and a decrease of salinity due to the isolation from the sea), legit Ludovic Rodewald-Rudescu.

Phylum PLATYHELMINTHES
Class TREMATODA
Subclass ASPIDOGASTREA
Family Aspidogastridae

***Aspidogaster antipai* Lepși, 1932**

Original name: *Aspidogaster antipai* Lepși, 1932: 72–73.

Type specimen: not found.

Type locality: Cigmău (Hunedoara County, Romania), Mureș River, from *Unio batavum*, 02.02.1931, legit Iosif Lepși.

Figure 1. Type specimens dedicated to Grigore Antipa from museological collections: A. Original glass jar containing specimen of the earthworm *Proctodrilus antipai antipai* (original label of Michaelsen-inside and external one from Prof. Zicsi; photo: Helma Roggenbuck & Martin Schwentner, Hamburg University-Zoology Museum); B. Original specimen file of *Proctodrilus antipai* collected from Jassy (Iași) by N. Leon (photo: Helma Roggenbuck & Martin Schwentner, Hamburg University-Zoology Museum); C. Pinned Robber fly specimen, *Lamyra antipai*, paratype and label (from MGAB Diptera type coll.); D. Pinned Robber fly, *Dysmachus antipai*, male holotype and labels (hand written ink by Medeea Weinberg) (MGAB Diptera type coll., photo: George Năzăreanu); E. Alcohol preserved paratype of the stone centipede, *Lithobius antipai* and original label (hand written ink label, Zahiu Matic collection, photo: drd. Cristian Sitar, The Zoological Museum of "Babes-Bolyai" University from Cluj); F. Paratype of the scorpionfly, *Panorpa antiporum* (from MGAB Insect coll. of Carol Nagler, hand written ink label); G. Glass jar containing alcohol preserved specimen of Antipa's Danube Delta gudgeon, *Romanogobio antipai* (MGAB type coll., and original type written label); H. Holotype of *Ammodytes antipai* and original label (hand written ink label by Mircea Paucă, MGAB Paleontological collection).

Phylum NEMERTEA
Class ENOPLA
Order Monostilifera
Family Ototyphlonemertidae

***Ototyphlonemertes* (*Duplex*) *antipai* Müller, 1968**

Original name: *Ototyphlonemertes antipai* Müller, 1968: 343–348.

Accepted name: *Ototyphlonemertes* (*Duplex*) *antipai* Müller, 1968, Envall & Norenburg, 2001: 155–156.

Type specimen: present in the collection of "Ovidius" University (Faculty of Agricultural and Natural Sciences), the collection of Prof. G. J. Müller (Prof. Dr. Marius Skolka, personal communication).

Type locality: Vama Veche, Black Sea (43°46 'N 28°35' E), Agigea, Costinești, 2 Mai (Romania), Varna, "Kaba-Kum" (Bulgaria), legit Geza Müller.

Phylum ANNELIDA
Class CLITELLATA
Subclass OLIGOCHAETA
Order Crassiclitellata
Family Lumbricidae

***Proctodrilus antipai antipai* (Michaelsen, 1891)**

Original name: *Allolobophora antipae* Michaelsen, 1891: 314–315.

Accepted name: *Proctodrilus antipai antipai* (Michaelsen, 1891), Zicsi, 1985: 275 – 289.

Type specimen: holotype, in original glass cylinder (alcohol) (Fig. 1A) reviewed by Prof. Zicsi, original label and original file card, coll. no. ZMHV 152 (collection Invertebrates I of the Zoological Museum of University of Hamburg, Germany (Fig. 1B).

Type locality: Iași, Romania, 1891, legit Nicolae Leon.

Phylum ARTHROPODA
Class ARACHNIDA
Subclass ACARI
Order Mesostigmata
Family Laelapidae

***Pneumolaelaps antipai* (Solomon, 1968)**

Original name: *Hypoaspis antipai* Solomon, 1968: 663–669, figs 1–4.

Accepted name: *Pneumolaelaps antipai* (Solomon, 1968).

Type specimen: holotype ♀, not found.
Type material: from a specimen of *Crocidura suaveolens*.
Type locality: Jijila, Romania (13.11.1966, legit Libertina Solomon).

Suborder Oribatida
Family Euphthiracaridae

***Euphthiracarus antipai* Feider & Călugăr, 1968**

Feider & Călugăr, 1968: 626–634, figs 11–19.
Type specimen: Holotype and paratype, not found.
Type locality: Valea Rea, Retezat Mt., Romania (1,500 m altitude, in dead leaves, 21.07.1966, legit Zicman Feider and Magda Călugăr).

Subphylum CRUSTACEA
Order Amphipoda
Suborder Gammaridea
Family Amphilochidae

***Gitanopsis antipai* Ortiz & Lalana, 1997**

Ortiz & Lalana, 1997: 30–35, figs 1–3.
Type specimen: MGAB type coll., holotype ♀, coll. no. AMP 429.
Type locality: Western Pacific Ocean, Celebes Sea, Bunaken, Indonesia, Station 29 (2,5 m, dredging, sandy bottom with *Thalassia*, 20.04.1991, legit Modest Guțu) (Gutu 1997).

Order Tanaidacea
Family Leptocheliidae
Genus *Antiparus* Gutu, 2016

Gutu, 2016: 168–169.
Type species: *Antiparus longisetosus* Gutu, 2016: 169–174, figs 55–57, MGAB type coll., holotype ♀, coll. no. 250.622; paratypes, 2♀♀, coll. no. 250.623.
Type locality: Western Indian Ocean, Tanzania (22 m depth, 10.1973, Romanian expedition in Tanzania, led by Mihai Băcescu).

***Grallatotanais antipai* Gutu & Iliffe, 2001**

Gutu & Iliffe, 2001: 95–99, figs 1–3.
Type specimen: MGAB type coll., holotype ♀, coll. no. 250.178; allotype ♂, coll. no. 250.179.

Type locality: Atlantic Ocean, Bahamas, Andros Island (sea cave, station 99–053, 04.10.1999, legit Thomas Iliffe).

Order Isopoda
Family Antheluridae

***Ananthura antipai* Negoescu, 2005**

Negoescu, 2005: 26–32, figs 2–4.

Type specimen: MGAB type coll., holotype non-ovigerous ♀, coll. no. MNHN Is5851; paratypes, 1 manca, 1 post manca, coll. no. MNHN Is5821, 1 non-ovigerous ♀, 2 mancas, ISP 898.

Type locality: Eastern Atlantic Ocean, Gibraltar ("Balgim'84" Expedition, "N.O. Cryos" ship, 1984), st. DW07, 36°46,1" N, 9°27" W, 1141 m depth, bottom with shell debris, foraminiferans, pteropods, 29.05.1984).

Order Cumacea
Family Bodotriidae

***Cyclaspis antipai* Petrescu, 1995**

Petrescu, 1995b: 52–55, fig. 3 A–F.

Type specimen: AMNH: holotype: ovigerous ♀, coll. no. AMNH 16768.

Type locality: South Atlantic Ocean, Uruguay (27.06.1961, st. 17–102,73 m depth, 34°25'S 52°19' W, "Vema" RV).

Family Nannastacidae

***Campylaspis antipai* Băcescu & Petrescu, 1989**

Băcescu & Petrescu, 1989: 327–340.

Type specimen: MGAB type coll., holotype ♂, coll. no. 49459.

Type locality: South Atlantic Ocean, Brazil, Araruama Lagoon (st. D 23 A, 40 m, sandy bottom, coll. Mrs. Orane Falcão de Souza Alves, "Geocosta Rio II" Expedition, 25.03.1986).

***Cumella antipai* Petrescu, Iliffe & Sarbu, 1994**

Petrescu, Iliffe & Sarbu, 1994: 347–353, figs 1–4.

Type specimen: MGAB type coll., holotype ♀, coll. no. 49522 / CUM 058; allotype ♂, coll. no. 49523 / CUM 059.

Type locality: Western Atlantic Ocean, Caribbean Sea, Jamaica, Westmoreland Parish, Negril, Joseph's Caves (underwater cave, 1–3 m, 26.06.1990, legit T. Iliffe, Serban M. Sarbu, USA).

Nannastacus antipai Petrescu, 1995

Petrescu, 1995a: 41–44, fig. 11; Petrescu, 1997: 121–123, fig. 10.

Type specimen: MGAB type coll., holotype ♀, coll. no 49549 / CUM 018; allotype ♂, coll. no. 49550 / CUM 019; paratype ♀, coll. no. 49551 / CUM 020.

Type locality: Western Pacific Ocean, Indonesia, Bunaken Isand, N Sulawesi (st. 7, sand among corals with *Thalassia*, 3 m depth, 20.04.1991, MGAB Expedition, legit Modest Guțu).

Nannastacus grantipai Petrescu, 2017

Petrescu, 2017: 94–95, fig. 3.

Type specimen: MGAB type coll., holotype ♀ postmanca, coll. no. CUM 1325.

Type locality: Indonesia, Kalimantan Island, Bontang (sta. 16, 2 m depth, dredging on bottom of medium sand, without vegetation, 18.05.1991, legit Modest Guțu).

Schizocuma antipai Petrescu, 2018

Petrescu, 2018: 42–43, fig. 47.

Type specimen: AM, holotype ♀, coll. no. P.90701; paratypes: 1 ♀, 1 subadult ♂, P.90702.

Type locality: South Pacific Ocean, Tasman Sea, Lord Howe Rise (-27.98° 162.86°, 1250 m depth, epibenthic sled, coarse sediment with pumice, 6.05.1989, J.K. Lowry & party, RV Franklin, FR0589-28).

Styloptocuma antipai Băcescu & Muradian, 1974

Băcescu & Muradian, 1974: 74–75, fig. 3.

Type specimen: MGAB type coll., holotype ♀ ovig., coll. no. 49032; allotype ♂, coll. no. 49033, paratypes 2 ♂♂, coll. no. 49034.

Type locality: Northwestern Atlantic, Beaufort Research Station, between Cape Hatteras and Florida (no. 49032-33°31'6"N, 76°02'2"W, 1000 m, 10.11.1966; no. 49033-33°46'4"N, 75°55'5" W, 1000 m, no. 49034-33°46'4"N, 75°55'5"W; 33°13'0"N, 76°13'5"W, "Eltanin" R.V.).

Family Diastylidae

***Oxyurostylis antipai* Petrescu, Iliffe & Sarbu, 1993**

Petrescu, Iliffe & Sarbu, 1993: 80–93, fig. 10.

Type specimen: MGAB type coll., holotype ♀, coll. no. 49511.

Type locality: Western Atlantic Ocean, Caribbean Sea, Jamaica, Joseph's cave, Negril, Westmoreland Parish (underwater cave, 1–3 m depth, sta. 90–026, coarse sand, 26.06.1990, legit T. Iliffe, S.M. Sarbu, USA).

Subphylum MYRIAPODA
Class CHILOPODA
Order Lithobiomorpha
Family Lithobiidae

***Lithobius antipai* Matic, 1969**

Matic, 1969: 94.

Type specimen: ZMUBB, paratype, coll. no. 904 (Cristian Sitar, personal communication) (Fig. 1E).

Type locality: Elburz, Mount Demavend, Iran (4000–4400 m altitude, 24.08.1966, legit Valerio Sbordoni).

Order Geophilomorpha
Family Geophilidae

***Pachimerium antipai* Căpușe, 1968**

Căpușe, 1968: plate VII, figs A–G.

Type specimen: not located.

Type locality: Ciucea, Cluj, Romania (16.08.1964, legit Iosif Căpușe).

Class INSECTA
Order Coleoptera
Family Carabidae

***Carabus* (*Tomocarabus*) *convexus convexus* Fabricius, 1775**

Original name: *Carabus antipai* Panin, 1942: 198–211.

Accepted name: *Carabus* (*Tomocarabus*) *convexus convexus* Fabricius, 1775.

Type specimen: not located.

Type locality: Piatra Neamț, Văratec, Romania (legit Sergiu Panin).

Order Diptera
Family Asilidae

Lamyra antipai (Weinberg & Pârvu, 1999)

Original name: *Choerades antipai* Weinberg & Pârvu, 1999: 342–349, figs 2–6.

Accepted name: *Lamyra antipai* (Weinberg & Pârvu, 1999), Pape & Thompson, 2019.

Type specimen: MGAB Diptera type coll., holotype ♂ (dissected), coll. no. 181.660; paratype ♂, coll. no. 181.661 (Fig. 1C).

Type locality: Bunaken Island (Sulawesi), Indonesia (18.04.1991, legit Corneliu Pârvu).

Dysmachus antipai Weinberg, 1968

Weinberg, 1968: 885–897, figs 1b, 2b, 3b, 4, 6, 7, 8b, 9b.

Type specimen: MGAB Diptera type coll., holotype ♂, coll. no. 12.106 (Fig. 1D); allotype ♀, coll. no. 12.107; paratypes 895 specs., coll. no. 181.503, 181.504, 181.505/1–47.

Type locality: from various localities from Dobrogea and Southern part of Romania, Valul lui Traian (19.VI.1958, legit Medeea Weinberg).

Subclass PTERYGOTA
Order Mecoptera
Family Panorpidae

Panorpa antiporum Nagler, 1968

Nagler, 1968: 316–318, figs 7–13.

Type specimen: MGAB type collection of other Insect orders (Romanian Fauna), 4 specimens from personal collection of Carol Nagler: holotype ♂, coll. no. 182.520 (Fig. 1F), allotype ♀, coll. no. 182.523, and 2 paratypes, 1 ♂, coll. no. 182.521 and 1 ♀, coll. no. 182.522.

Type locality: Zboina Neagră, Vrancea, Romania (1,200 m altitude, 9–11.06.1965, legit Carol Nagler).

Order Lepidoptera
Family Tineidae

***Anomalotinea liguriella* (Millière, 1879)**

Original name: *Fermocelina antipai* Zagulajev, 1972: 342–344, figs 11–12.
Accepted name: *Anomalotinea liguriella* (Millière, 1879).
Type specimen: MGAB (Lepidoptera type coll.), holotype, coll. no. 176.137.
Type locality: Spain (legit Zagulajev).

Superfamily Pyraloidea
Family Crambidae

***Chilo christophi* Bleszynski, 1965**

Original name: *Chilo antipai* Popescu-Gorj, 1968: 845, figs 1–3, 7–10.
Accepted name: *Chilo christophi* Bleszynski, 1965.
Type specimen: MGAB (Lepidoptera type coll.), holotype, coll. no. 177.219; allotype, coll. no. 177.220, paratypes, coll. No.177.221/A–D.
Type locality: Caraorman (Tulcea County), Romania (09.05.1967, legit Ioan Drăghia).

Order Hymenoptera
Family Diapriidae
Tribe Spilomicrini
Genus *Pentapria* Kieffer, 1905

Original name: *Antipapria* Fabritius 1968: 841.
Accepted name: *Pentapria* Kieffer, 1905: 34; Masner & García, 2002.
Type specimen: *Antipapria depressa* Fabritius 1968: 841–844, figs 1–5; holotype ♀; paratype ♀- both not located.
Type locality: Lacavera, San Miguel de Tucumán, Argentina (23–28.11.1951, legit M. L. Aczèl).

Family Bethylidae

***Bethylus antipai* Nagy, 1968**

Nagy, 1968:1033–1034, fig. 3.
Type specimen: holotype ♂, Nagy collection (possible in SMNHTAU).
Type locality: Arcalia Station of Biological Research, Bistrița, Bistrița-Năsăud, Romania (29.07.1966, on *Alnus glutinosa*, legit Carol Nagy).

Phylum CHORDATA
Class TELEOSTEI
Order Cypriniformes
Family Cyprinidae
Subfamily Gobioninae

***Romanogobio antipai* (Bănărescu, 1953)**

Original name: *Gobiokessleri antipai* Bănărescu, 1953: 300, fig. 4.

Accepted name: *Romanogobio antipai* (Bănărescu, 1953), Nasenka & Freyhof, 2004.

Type specimen: MGAB type coll., holotype, coll. no. 49908 (Fig. 1G) (preserved in glass jar, in 70% alcohol, type written label); paratype, coll. no. BN 761(preserved in 70% alcohol) .

Type locality: Sulina, Tulcea County, Romania (before 1909, legit Grigore Antipa).

Superclass OSTEICHTHYES
Class ACANTHOMORPHATA
Family Ammodytidae

***Ammodytes antipai* Paucă, 1929**

Paucă, 1929: 112–120.

Type specimen: MGAB (Paleontological coll.), holotype (two fragments from Mircea Paucă collection, personal hand ink written label), coll. no. 11007/64 (Fig. 1H).

Type locality: Suslănești, Oligocen, Romania (Fossil, Oligocen, 1929, legit Mircea Paucă).

Class MAMMALIA
Order Eulipotyphla
Family Soricidae

Crocidura suaveolens* *(Pallas, 1811)

Original name: *Crocidura antipae* Matschie, 1901: 228–229.

Accepted name: *Crocidura suaveolens (Pallas, 1811),* Corbet, 1978.

Type specimen: not located.

Type locality: Ciulnița, Călărași, Romania (09.1901, skin), Bârza, Olt (3.11.1901, skin), Mangalia (alcohol), legit Robert Ritter von Dombrowski.

Discussions

The major problems that many European museums confronts nowadays are the decreasing funding, not also for research but for expanding the collections, maintaining the proper preservation conditions in the perspective of increasing scarcity of the qualified personnel, specialists, curators and technicians (Andreone et al. 2014).

During his lifetime, Grigore Antipa was not only the first avid collector of natural history items for the museum he was leading, but also, he was a believer of great fervour in the potential of young promising scientists whom he helped access higher education. Professor Dr. Maria Celan (1898–1989), the most renowned Romanian algologist, was recommended by Grigore Antipa, in 1926, to Professor Ion Borcea for employment at the Marine Biological Station from Agigea (Bologa 2013–2014). Her fruitful researches led to the identification of more than 20 new species for the Romanian flora and new species to science (Sava 2011, Bologa 2017). Also, in 1928, Antipa offers a warm letter of recommendation addressed to Dr. Viktor Pietschmann, Head of Ichthyology section from Vienna Museum of Natural History, for that the promissing young scientist, Mircea Paucă (his most trusted collaborator and the following director of the Museum of Natural History after Grigore Antipa's death) could study the vast paleontological collection and bibliography (Marinescu 1991).

Grigore Antipa was a man of multiple valences, not only a perfect erudite, but a warm and convivial personality. He mediated the donation of a collection of Lumbricidae from Iași County (Northern part of Romania), which were sent by Professor Dr. Nicolae Leon (his older stepbrother and founding father of Romanian Parasitology) to Wilhelm Michaelsen (Chief Curator, Hamburg Zoological Museum). He dedicated two species of the same genus (Michaelsen 1891) to his both benefactors. Also, Paul Matschie, curator of Mammals in the Berlin Zoological Museum (Museum für Naturkunde), visited the Zoological Museum from Bucharest to study a collection of small insectivores (Chiroptera, Insectivora, Carnivora) and furtheron, as a demonstration of deep gratitude for Dr. Grigore Antipa's goodness who offered support during his stay, Matschie dedicated him a species of *Crocidura* (Matschie 1901).

Although being mentioned in the original paper as part of a museological collection, during time, nine taxons had been lost. The three specimens of *Crocidura suaveolens* (syn. *C. antipae*) that were described by Matschie (1901), which were registered in the inventory of Robert Ritter von Dombrowski (1911, MGAB Archives), could not be located in the MGAB Mammal Collection, nor in the Museum für Naturkunde collections and the archives. A similar situation regarding the type specimens of *Pentapria* (*Antipapria*), which were donated by Klaus Fabritius (personal communication) to MGAB collections, but sadly, nowadays could not be located. Iosif Căpușe (1968) mentioned that the holotype of *Pachimerium antipai* is preserved in the MGAB collections, but the specimen has not been found in the small Chilopoda collection organized by him.

Grigore Antipa militated endlessly for the development of scientifical research in Romania and the implementation of documented studies in practical aspects of various developmental plans in different branches of the economy. Through a royal order from King Carol II, Grigore Antipa requests the help of Dr. Ludovic Iosif Urban Rodewald in order to develop an industry for reed exploitation and processing. Although there is no published biography about Professor Rodewald prestigious scientific activity, to this day he is known as the founding father of reed industry and of several institutions of cellulose production. The collection of Rodewald had been probably lost, after being arrested by the communists and sent to work in the Donbas mines, west of Siberia, for three years. He was greatley appreciated afterwards in the Chemistry Ministry where he developed a long career for more than 20 years (Alexander Rodewald, personal communication).

Some of the specimens had been lost during time, deteriorated or without a precise localisation. Some of the scientists involved in describing this taxa were forced to leave the country given the political pressure, like Carol Nagy (Qabir Argaman) (Kimsey and Brothers 2016), thus leaving their private collections (also the type specimens) behind, with no currators or other specialists to preserve and continue their work. During World War II, in 1944, the collections of the Regional Museum of Basarabia (Chișinău, Republic of Moldova) had been transferred to Romania (in Craiova and by the end of the war to Bucharest) and back to Moscow (Petrescu 2013). Grigore Antipa was the mentor of Iosif Lepși, the director of the Regional Museum of Basarabia. At the beginning of World War II, he helped Lepși to find a job as a collaborating biologist at the Fisheries Direction, where Grigore Antipa was the director and also head of department at the National Museum of Natural History from Bucharest (Geacu 2006).

"Grigore Antipa" National Museum of Natural History from Bucharest is the largest repository in Romania for type collections, harbouring a wide variety of taxa, to which many distinguished scientists have contributed during time as it is revealed by the published catalogues: Diptera (Weinberg 1973, 1976, 1982, 1989), Lepidoptera (Popescu-Gorj 1951), Coleoptera (Serafim 1992), Cumaceans (Petrescu 1992), Mysids (Petrescu and Wittmann 2009) and Isopods (Negoescu 1998).

During the Golden Era of Romanian research, while Acad. Mihai Băcescu was the director of the museum (1964–1988) and several years after, the "School of Carcinology" had been founded and soon became the most prolific section of the museum (the disciples of Prof. Băcescu described numerous new species). During this time, many Romanian expeditions were organized, therefore facilitating the access of several generations of scientists to specimens from unexplored areas.

One of the major problems from curatorial perspective is the maintenance of a collection in optimal conditions, when the main founder has departed and there is not enough trained personnel. The most vivid example is offered by the Acarology Collections of Prof. Zicman Feider and those of Libertina Solomon, donated to the Natural History Museum from Iași ("Alexandru Ioan Cuza" University of Iași) which suffered irremediable damadges. Other specimens, like in the case of

Ammodytes antipai (incomplete, only two fragments are preserved in Mircea Pucă Paleontological Collection), due to the correct preservation of the collecting data, therefore the registration of the holotype in museum's inventory was possible. The paleontological collection had been partially studied and still requires a specialist. The specimens of scorpionfly, *Panorpa antiporum* (registered in MGAB collection as *Panorpa antipae*), which is the only species dedicated by Carol Nagler (curator, Natural Sciences Museum Focșani) to both Grigore and Alina Antipa, his most devoted collaborator and life partner, rests in the MGBA type collection of other Insect orders (Romanian Fauna). One other species of a nannastacid cumacean, *Cumella alinae*, has been dedicated to Alina Antipa by Dr. Iorgu Petrescu on the 50th commemoration of her death (Petrescu 1995a).

Although this is a commemorative list of specimens, we would like to underline the necessity of a better understanding of the curatorial process with the view of historical events. Therefore, it is mandatory to consider the taphonomy of the collection object, the background that offers its present value, but also to reinstate it as an accessible and mobile sample for further taxonomical studies.

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